



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Application of:**

Chang Yul Cha

**Filed:** 02/07/02

**Serial No.** 10/071,280

**Title:** Process for Microwave Destruction of Harmful Agents and Waste

Art Unit No. 1741

Examiner:

E. Wong

Commissioner of Patents and Trademarks  
Washington, DC 20231

Dear Sir:

Attorney Docket No. 270

**AMENDMENT**

In response to the Office Action dated May 18, 2004 please note the following amendment of the above-identified U.S. patent application:

***In the Claims:***

All claims follow in the revised amendment style format.

1. (previously amended) A process for microwave destruction of solid harmful contaminated waste comprising:
  - compacting said waste on a platform, wherein said platform contains a carbonaceous substance;
  - radiating said platform with microwaves to produce pyrolysis of said waste;
  - collecting vapors from said pyrolysis with a purge gas; and
  - treating said purge gas with microwaves while passing through an oxidation catalyst bed energized with a carbonaceous substance, wherein said purge gas exit temperature does not exceed 300 °F.
2. (previously amended) The process according to claim 1 wherein said harmful contaminated waste further comprises being selected from the group consisting of chemical agents, biological agents, and medical waste.
3. (original) The process according to claim 1 wherein all carbonaceous substances further comprise being selected from the group consisting of activated carbon, char, soot, pyrolytic carbon, activated charcoal, metal carbides, and combinations thereof.
4. (original) The process according to claim 1 wherein said purge gas further comprises significant oxygen in order to enhance pyrolysis.

Do not enter. On 7/21/04